



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/814,386	03/30/2004	Peter E. Hart	20412-08342	5515

76137 7590 11/17/2008  
RICOH/FENWICK  
SILICON VALLEY CENTER  
801 CALIFORNIA STREET  
MOUNTAIN VIEW, CA 94041

EXAMINER
----------

RODRIGUEZ, LENNIN R

ART UNIT	PAPER NUMBER
----------	--------------

2625

NOTIFICATION DATE	DELIVERY MODE
-------------------	---------------

11/17/2008

ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PTOC@FENWICK.COM  
gsueoka@fenwick.com  
nmorad@fenwick.com

<b>Office Action Summary</b>	<b>Application No.</b> 10/814,386	<b>Applicant(s)</b> HART ET AL.	
	<b>Examiner</b> LENNIN R. RODRIGUEZ	<b>Art Unit</b> 2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 31 October 2008.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-49 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-49 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                       | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>10/31/2008</u>  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Response to Arguments***

1. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection. Applicant's newly added limitation requires further search and consideration.

### ***Continued Examination Under 37 CFR 1.114***

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/31/2008 has been entered.

### ***Claim Rejections - 35 USC § 103***

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

4. Claims 1-4, 6, 12, 14, 29-32, 38 and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sugiyama (US 5,633,723) in view of Gulko et al. (US 2003/0177240) and Ishikawa (US 5,987,226).

(1) regarding claim 1:

Sugiyama '723 discloses a system (figure 1 and column 2, lines 62-63) for printing time-based media (column 3, lines 11-16), the system comprising:

a media processing system (figure 1 (12-17,21-29)) for executing a time-based media processing task for determining an electronic representation (column 6, lines 19-26) of time-based media (column 3, lines 12-17), wherein the media processing system comprises a first portion with a first processing speed that resides at least in part on a multi-media printer (figure 1 and column 3, lines 11-13 where it resides completely on multi-media (video) printer, where the controller has a first processing speed); and

an electronic output system within the multimedia printer (10-20 in figure 1) in communication with the media processing system to receive the electronic representation, the electronic output system producing a corresponding electronic output from the electronic representation of the time-based media (column 3, lines 31-41).

Sugiyama '723 discloses all the subject matter as described above except a resource allocation module for allocating the time-based media processing task between the first portion and the second portion based at least in part on a comparison of the first processing speed and the second processing speed;

the media processing system resides at least in part on an external media processing device; and

an interface within then multimedia printer for receiving time-based media from an external source and being communicatively coupled to send the time-based media to the media processing system.

However, Gulko '240 teaches a resource allocation module for allocating the time-based media processing task between the first portion and the second portion based at least in part on a comparison of the first processing speed and the second processing speed (paragraph [0119] and paragraph [0120], lines 1-3, where with information such as processing speed, the workload is divided among a computer cluster, thus by comparison it is determine where to send a task to be processed);

Having a system of Sugiyama '723 reference and then given the well-established teaching of Gulko '240 reference, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system for printing time-based media of Sugiyama '723 to include a resource allocation module for allocating the time-based media processing task between the first portion and the second portion based at least in part on a comparison of the first processing speed and the second processing speed as taught by Gulko '240 because in financial services and energy companies there is a strong need for scalable distributed computing platform, thus increasing the reliability of the system and giving peace of mind to the users.

Sugiyama '723 and Gulko '240 disclose all the subject matter as described above except the media processing system resides at least in part on an external media processing device; and

an interface within then multimedia printer for receiving time-based media from an external source and being communicatively coupled to send the time-based media to the media processing system.

However, Ishikawa '226 teaches the media processing system resides at least in part on an external media processing system (figure 1 and column 6, lines 45-52 - overall media processing system resides in multiple media processing systems, all connected by a network); and

an interface within the multimedia printer for receiving time-based media from an external source (column 6, lines 45-49, where it is receiving data from external clients through a network) and being communicatively coupled (Figure 1, through a network 3) to send the time-based media to the media processing system (column 6, lines 45-49).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made the media processing system resides at least in part on an external media processing device; and an interface within then multimedia printer for receiving time-based media from an external source and being communicatively coupled to send the time-based media to the media processing system as taught by Ishikawa '226 in the system of Sugiyama '723 and Gulko '240. With this distributed processing increases the overall speed with which media data can be processed (column 3, lines 40-48 of Ishikawa), and proper load balancing (via the resource allocation module) maximizes the efficiency of the distributed processing.

(2) regarding claim 2:

Sugiyama '723 and Gulko '240 disclose all the subject matter as described above except wherein the external media processing device is a personal computer.

However, Ishikawa '226 teaches wherein the external media processing device is a personal computer (column 6, lines 45-49, where the clients are interpreted as personal computers).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made that the external media processing device is a personal computer as taught by Ishikawa '226 in the system of Sugiyama '723 and Gulko '240. With this distributed processing increases the overall speed with which media data can be processed (column 3, lines 40-48 of Ishikawa), and proper load balancing (via the resource allocation module) maximizes the efficiency of the distributed processing.

(3) regarding claim 3:

Sugiyama '723 further discloses that the media processing system determines a printed representation of the time-based media (column 5, line 66 to column 6, line 5); and the system further comprises a printed output system (figure 1(31-33)) in communication with the media processing system (column 5, line 63 to column 6, line 2) to receive the printed representation (column 5, line 66 to column 6, line 5), the printed output system producing a corresponding printed output from the printed representation of the time-based media (column 6, lines 2-5).

(4) regarding claim 4:

Sugiyama '723 and Gulko '240 disclose all the subject matter as described above except the external media processing system is a remote external service system coupled to the network, the external service system in communication with the media processing system for performing at least some processing steps for the time-based.

However, Ishikawa '226 teaches the external media processing system is a remote external service system coupled to the network, the external service system in communication with the media processing system for performing at least some processing steps for the time-based ("time-based" by combination with Sugiyama) media (column 6, lines 45-52 of Ishikawa).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made the external media processing system is a remote external service system coupled to the network, the external service system in communication with the media processing system for performing at least some processing steps for the time-based as taught by Ishikawa '226 in the system of Sugiyama '723 and Gulko '240. With this distributed processing increases the overall speed with which media data can be processed (column 3, lines 40-48 of Ishikawa), and proper load balancing (via the resource allocation module) maximizes the efficiency of the distributed processing.

(5) regarding claims 6 and 32:

Sugiyama '723 further discloses that the interface (input source) comprises a communication interface (figure 1 (11)) allowing the system to be communicatively coupled to an electronic device, the electronic device providing the time-based media to the system (column 3, lines 11-17).

(6) regarding claims 12 and 38:

Sugiyama '723 further discloses that the interface (input source) comprises embedded screen capture hardware (figure 1(12) and column 3, lines 12-16 and lines 20-24).



(7) regarding claims 14 and 40:

Sugiyama '723 further discloses that the interface (input source) comprises an embedded video recorder (figure 1(11) - video signal input from video recorder directly connected to interface), wherein the external source of media (figure 1 ("Video Signal")) is a series of images captured by the embedded video recorder, converted into an electronic format (column 3, lines 12-17), and then provided to the media processing system (column 3, lines 16-20).

(8) regarding claim 29:

Sugiyama '723 further discloses that the external media processing system includes a user interface that provides information to a user about at least one of the printed representation and the electronic representation of the time-based media (column 3, lines 45-48), the user interface further accepting input from a user to cause the media processing system to modify at least one of the printed representation and the electronic representation of the time-based media (column 3, lines 57-61).

(9) regarding claim 30:

Sugiyama '723 further discloses the media processing system determines at least one of the printed representation and the electronic representation (column 4, lines 24-42).

Sugiyama '723 and Gulko '240 do not disclose expressly that the determination is with assistance from an external media processing system that is an external computing device.

Ishikawa '226 discloses determining at least one of a printed representation and an electronic representation with assistance from an external media processing system that is an external computing system (column 6, lines 33-44 of Ishikawa-printed representation determined by several computing systems external to each other).

Sugiyama '723, Gulko '240 and Ishikawa are analogous art because they are from the same field of endeavor, namely the control and processing of multi-media data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to determine the printed representation with assistance from at least one external computing system, as taught by Ishikawa. The motivation for doing so would have been that distributed processing increases the overall speed with which media data can be processed (column 3, lines 40-48 of Ishikawa). Therefore, it would have been obvious to combine Ishikawa with Sugiyama to obtain the invention as specified in claim 30.

(10) regarding claim 31:

Sugiyama '723 discloses that the printer further comprises the following supported by its housing: an input source for receiving time-based media (figure I("VIDEO SIGNAL") and column 3, lines I I-17); a first output source coupled to the input source (figure I (30-33) - coupled to input source via System Controller (15)), the first output source producing a printed representation of the time-based media (column 4, lines 35-42); a second output source coupled to the input source (figure 1 (18-19) - coupled to input source via System Controller (15) and Selector (17)), the second output source producing an electronic representation of the time-based media (column 4, lines 24-35 -produces electronic signals used to drive display), the electronic representation

Art Unit: 2625

of the time-based media corresponding to the printed representation of the time-based media (column 4, lines 30-35).

5. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sugiyama (US 5,633,723), Gulko et al. (US 2003/0177240) and Ishikawa (US 5,987,226) as applied to claims above, and further in view of Chang (6,167,033).

Ishikawa discloses that the external media processing system is an external device coupled to the printer network (figure I and column 6, lines 6-19 of Ishikawa).

Sugiyama '723, Gulko '240 and Ishikawa does not disclose expressly that the external media processing system is an external device coupled to the printer network by the Internet Chang discloses coupling external devices to a network by the Internet (column 1, lines 39:50).

Sugiyama '723 and Gulko '240 in view of Ishikawa is analogous art with respect to Chang since they are from similar problem solving areas, namely how to efficiently transmit digital image/video data between a plurality of different computational devices. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to specifically use the Internet to connect the external media processing system to the printer network. The suggestion for doing so would have been that the Internet is a common means of connecting various computational devices together when they are not physically close to each other. Therefore, it would have been obvious to combine Chang with Sugiyama '723 and Gulko '240 in view of Ishikawa to obtain the invention as specified in claim 5.

Art Unit: 2625

6. Claims 7-8, 15, 23, 33-34, 41 and 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sugiyama (US 5,633,723), Gulko et al. (US 2003/0177240) and Ishikawa (US 5,987,226) as applied to claims above, and further in view of Hymel (US 2003/0220988).

(1) regarding claims 7 and 33:

Sugiyama '723 and Gulko '240 in view of Ishikawa do not disclose expressly that the interface (input source) comprises a removable media storage reader.

Hymel discloses providing video signal data at an interface using a removable storage reader (paragraph 10, lines 14-15 and lines 20-21 of Hymel - DVD is a removable data storage storing video signals and outputting the video signals through an interface).

Sugiyama '723 and Gulko '240 in view of Ishikawa is analogous art with respect to Hymel because they are from similar problem solving areas, namely the control of data storage and output. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use a DVD drive at the interface (input source). The suggestion for doing so would have been that DVDs are a common form of video data media. Therefore, it would have been obvious to combine Hymel with Sugiyama '723 and Gulko '240 in view of Ishikawa to obtain the invention as specified in claims 7 and 33.

(2) regarding claims 8 and 34:

Sugiyama '723 and Gulko '240 in view of Ishikawa do not disclose expressly that the interface (input source) comprises a media input device selected from a group

Art Unit: 2625

consisting of: a DVD reader, a video cassette tape reader, a CD reader, an audio cassette tape reader, and a flash card reader.

Hymel discloses an interface comprising a media input device (paragraph 10, lines 1-5) selected from a group consisting of: a DVD reader (paragraph 10, lines 14-15 and lines 20-21), a video cassette tape reader (paragraph 10, lines 14-15 and line 20 - digital camcorder, which, as is well-known in the art, uses a digital video (19II} cassette tape), a CD reader (paragraph 10, lines 14-15 and lines 19-20 of Hymel), an audio cassette tape reader (paragraph 10, lines 14-15 and line 19 - audio cassette tape reader is a type of audio player, MP3 player is merely an example), and a flash card reader (paragraph 10, lines 14-15 and lines 19-20 of Hymel - MP3 players and digital cameras generally use flash card memory).

Sugiyama '723 and Gulko '240 in view of Ishikawa is analogous art with respect to-Hymel because they are from similar problem solving areas, namely the control of data storage and output. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to have the media input device at the interface be a DVD reader, a video cassette tape reader, a CD reader, an audio cassette tape reader, and/or a flash card reader, as taught by Hymel. The motivation for doing so would have been to allow a user to connect a variety of different types of peripheral devices to an overall system, thus allowing the user to perform a variety of functions (paragraph 2, lines 1-6 of Hymel). Therefore, it would have been obvious to combine Hymel with Sugiyama '723 and Gulko '240 in view of Ishikawa to obtain the invention as specified in claims 8 and 34.

(3) regarding claims 15 and 41:

Sugiyama '723 and Gulko '240 in view of Ishikawa does not disclose expressly that the interface (input source) comprises an embedded audio recorder, wherein the external source of media is a series of sounds that are converted into an electrical format by the embedded audio recorder and then provided to the media processing system.

Hymel discloses an embedded (paragraph 10, lines 22-26 of Hymel) audio recorder (paragraph 10, lines 14- 15 and line 19 of Hymel). As is abundantly well-known in the art, an embedded audio recorder input into a computerized media processing system inputs, as an external source of media, a series of sounds that are converted into an electrical format by the embedded audio recorder and then provided to the media processing system.

Sugiyama '723 and Gulko '240 in view of Ishikawa is analogous art with respect to Hymel because they are from the same field of endeavor, namely the control and processing of time-based media data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to include an embedded audio recorder as part of the interface. The motivation for doing so would have been to allow a user to connect another one of a variety of different types of peripheral devices, thus allowing the user to perform one more of a variety of functions (paragraph 2, lines 1-6 of Hymel). Therefore, it would have been obvious to combine Hymel with Sugiyama '723 and Gulko '240 in view of Ishikawa to obtain the invention as specified in claims 15 and 41.

(4) regarding claims 23 and 49:

Sugiyama '723 and Gulko '240 in view of Ishikawa do not disclose expressly that the electronic output system (second output source) comprises an embedded web page display.

Hymel discloses an embedded web page display (figure 1(130) and paragraph 1 I, lines 1-10).

Sugiyama '723 and Gulko '240 in view of Ishikawa is analogous art with respect to Hymel because they are from the same field of endeavor, namely the control and processing of time-based media data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to include an embedded web page display as part of the electronic output system (second output source). The motivation for doing so would have been to allow a user to display a web page, which is simply one of a plurality of different types of desirable output (paragraph 2, lines 1-6 of Hymel). Therefore, it would have been obvious to combine Hymel with Sugiyama '723 and Gulko '240 in view of Ishikawa to obtain the invention as specified in claims 23 and 49.

7. Claims 9-10, 25-26 and 35-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sugiyama (US 5,633,723), Gulko et al. (US 2003/0177240) and Ishikawa (US 5,987,226) as applied to claims above, and further in view of Stevens (US 2002/0010641).

(1) regarding claims 9 and 35:

Sugiyama '723 and Gulko '240 in view of Ishikawa does not disclose expressly that the external source (input source) is a media broadcaster, and wherein the interface comprises a media broadcast receiver that can be tuned to a media broadcast.

Stevens discloses an external source (input source) that is a media broadcaster, wherein the interface comprises a media broadcast receiver that can be tuned to a media broadcast (figure 3(110) and paragraph 36, lines 1-8 of Stevens).

Sugiyama '723 and Gulko '240 in view of Ishikawa is analogous art with respect to Stevens because they are from the same field of endeavor, namely the control and processing of time-based media data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to configure the interface taught by Sugiyama to receive a media broadcast from a media broadcast receiver (radio), as taught by Stevens. The motivation for doing so would have been to allow users to retrieve desired distributions of audio and video data over a controlled broadcast (paragraph 4, lines 1-5 of Stevens). Therefore, it would have been obvious to combine Stevens with Sugiyama '723 and Gulko '240 in view of Ishikawa to obtain the invention as specified in claims 9 and 35.

(2) regarding claims 25 and 26:

Sugiyama '723 and Gulko '240 in view of Ishikawa does not disclose expressly that said multimedia processing system comprises an embedded audio encryption module and an embedded video encryption module.

Stevens discloses an embedded audio encryption module (paragraph 54, lines 1-4 and paragraph 57, lines 3-4 of Stevens) and an embedded video encryption module (paragraph 54, lines 1-4 of Stevens).

Sugiyama '723 and Gulko '240 in view of Ishikawa is analogous art with respect to Stevens because they are from the same field of endeavor, namely the control and



Art Unit: 2625

processing of time-based media data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to include the embedded audio encryption module and the embedded video encryption module taught by Stevens as part of said multimedia processing system. The motivation for doing so would have been to allow users to retrieve desired distributions of audio and video data over a controlled broadcast (paragraph 4, lines 1-5 of Stevens). Therefore, it would have been obvious to combine Stevens with Sugiyama '723 and Gulko '240 in view of Ishikawa to obtain the invention as specified in claims 25 and 26.

(3) regarding claims 10 and 36:

Sugiyama '723 and Gulko '240 in view of Ishikawa does not disclose expressly that the interface (input source) comprises an embedded receiver selected from a group consisting of: an embedded TV receiver, an embedded radio receiver, an embedded short-wave radio receiver, an embedded satellite radio receiver, an embedded two-way radio, and an embedded cellular phone.

Stevens discloses an embedded TV receiver (figure 3(110) and paragraph 36, lines i-8 of Stevens), an embedded radio receiver (paragraph 36, lines 1-8 of Stevens), and an embedded satellite radio receiver (paragraph 36, lines 1-8 of Stevens) available for selection by a user (paragraph 36, lines 6-10 of Stevens).

Sugiyama '723 and Gulko '240 in view of Ishikawa is analogous art with respect to Stevens because they are from the same field of endeavor, namely the control and processing of time-based media data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to have an embedded TV receiver, an

Art Unit: 2625

embedded radio receiver, and an embedded satellite radio receiver available for selection at the interface (input source), as taught by Stevens. The motivation for doing so would have been to allow users to retrieve desired distributions of audio and video data over a controlled broadcast (paragraph 4, lines 1- 5 of Stevens). Therefore, it would have been obvious to combine Stevens with Sugiyama '723 and Gulko '240 in view of Ishikawa.

8. Claims 11 and 37 rejected under 35 U.S.C. 103(a) as being unpatentable over Sugiyama (US 5,633,723), Gulko et al. (US 2003/0177240) and Ishikawa (US 5,987,226) as applied to claims above, and further in view of Federspiel (US 5,170,935).

(1) regarding claims 11 and 37:

Sugiyama '723 and Gulko '240 in view of Ishikawa does not disclose expressly that the interface (input source) comprises an embedded receiver selected from a group consisting of an embedded heat sensor, an embedded humidity sensor, an embedded National Weather Service radio alert receiver, and an embedded TV Emergency Broadcast System (EBS) alert monitor.

Federspiel discloses selecting between an embedded heat sensor (column 12, lines 10-18 of Federspiel) and an embedded humidity sensor (column 12, lines 21-24 of Federspiel).

Sugiyama '723 in view of Ishikawa is analogous art with respect to Federspiel because they are from similar problem solving areas, namely the control and processing of digital time-based data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to select from among an embedded heat sensor and

Art Unit: 2625

an embedded humidity sensor, as taught by Federspiel. The motivation for doing so would have been to be able to control the environmental conditions in which a user is present (column 2, lines 5-9 of Federspiel). Therefore, it would have been obvious to combine Federspiel with Sugiyama '723 in view of Ishikawa.

9. Claims 13, 27-28 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sugiyama (US 5,633,723), Gulko et al. (US 2003/0177240) and Ishikawa (US 5,987,226) as applied to claims above, and further in view of Chino (US 6,118,888).

(1) regarding claims 13 and 39:

Sugiyama '723 and Gulko '240 in view of Ishikawa do not disclose expressly that the interface (input source) comprises an ultrasonic pen capture device.

Chino discloses an ultrasonic pen capture device (figure 3(102i) and column 7, lines 14-16).

Sugiyama '723 and Gulko '240 in view of Ishikawa is analogous art with respect to Chino because they are from the same field of endeavor, namely the control and processing of digital data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to capture input data using an ultrasonic pen capture device, as taught by Chino. The suggestion for doing so would have been that an electronic pen is simply another useful output device that provides digital data a user may wish to obtain (figure 3 and column 6, lines 66-67 of Chino). Therefore, it would have been obvious to combine Chino with Sugiyama '723 and Gulko '240 in view of Ishikawa to obtain the invention as specified in claims 13 and 39.

(2) regarding claim 27:

Sugiyama '723 and Gulko '240 in view of Ishikawa do not disclose expressly that the multimedia processing system comprises an embedded audio sound localization module.

Chino discloses an embedded audio sound localization module (column 13, lines 5-14 of Chino). By using the gaze object detection portion of the multi-modal interface apparatus, the audio sound localization is determined.

Sugiyama '723 and Gulko '240 in view of Ishikawa is analogous art with respect to Chino because they are from the same field of endeavor, namely the control and processing of time-based media data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to include the embedded audio sound localization module taught by Chino as part of the overall multimedia processing system. The motivation for doing so would have been to ensure that user input is intended, and the user is not speaking to someone else (column 1, lines 52-58 of Chino). Therefore, it would have been obvious to combine Chino with Sugiyama '723 and Gulko '240 in view of Ishikawa to obtain the invention as specified in claim 27.

(3) regarding claim 28:

Sugiyama '723 and Gulko '240 in view of Ishikawa does not disclose expressly that said multimedia processing system comprises an embedded video motion detection module.

Chino discloses an embedded video motion detection module (figure 3(1020 and column 7, lines 33-38 of Chino).

Sugiyama '723 and Gulko '240 in view of Ishikawa are combinable with Chino because they are from the same field of endeavor, namely the control and processing of time-based media data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to include the embedded video motion detection module taught by Chino as part of the overall multimedia processing system. The suggestion for doing so would have been that detection of a user's motion and gestures is simply another useful electronic means to input data into a computerized system (figure 3 and column 7, lines 2-11 of Chino). Therefore, it would have been obvious to combine Chino with Sugiyama '723 and Gulko '240 in view of Ishikawa to obtain the invention as specified in claim 28.

10. Claims 16, 21-22, 24, 42 and 47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sugiyama (US 5,633,723), Gulko et al. (US 2003/0177240) and Ishikawa (US 5,987,226) as applied to claims above, and further in view of Korman (US 6,308,887).

(1) regarding claims 16 and 42:

Sugiyama '723 and Gulko '240 in view of Ishikawa do not disclose expressly that the electronic output system (second output source) is configured to write said electronic representation to a removable media storage device.

Korman discloses outputting digital multimedia data to a removable media storage device (column 7, lines 31-35 and column 10, lines 28-31 of Korman).

Sugiyama '723 and Gulko '240 in view of Ishikawa is analogous art with respect to Korman because they are from the same field of endeavor, namely the control and

Art Unit: 2625

processing of multi-media data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to write said electronic representation to the removable media storage device taught by Korman. The motivation for doing so would have been to provide a convenient, transportable computer medium for the digital data comprising said electronic representation (column 7, lines 33-35 of Korman). Therefore, it would have been obvious to combine Korman with Sugiyama '723 and Gulko '240 in view of Ishikawa to obtain the invention as specified in claims 16 and 42.

(2) regarding claims 21 and 47:

Sugiyama '723 and Gulko '240 in view of Ishikawa does not disclose expressly that the electronic output system (second output source) is coupled to a speaker system and sends an audio signal to the speaker system.

Korman discloses outputting audio data using a speaker system as a peripheral device (figure 2 (310) and column 7, lines 47-54 of Korman). In order for said speaker system to operate as an output, sending an audio signal to said speaker system is inherent.

Sugiyama '723 and Gulko '240 in view of Ishikawa is analogous art with respect to Korman because they are from the same field of endeavor, namely the control and processing of multi-media data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to output audio data to a connected speaker system, as taught by Korman. The motivation for doing so would have been to provide the appropriate output format if audio output is desired. Therefore, it would have been

obvious to combine Korman with Sugiyama '723 and Gulko '240 in view of Ishikawa to obtain the invention as specified in claims 21 and 47.

(3) regarding claims 22 and 48:

Korman discloses that the electronic output system comprises an embedded sound player for generating the audio signal (column 5, lines 30-34 of Korman).

(4) regarding claim 24:

Sugiyama '723 and Gulko '240 in view of Ishikawa do not disclose expressly that the media processing system comprises an embedded multimedia server.

Korman discloses an embedded multimedia server (figure 2(10) and column 3, lines 48-56 of Korman).

Sugiyama '723 and Gulko '240 in view of Ishikawa is analogous art with respect to Korman because they are from the same field of endeavor, namely the control and processing of multi-media data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to include a multi-media server in the overall media processing system, as taught by Korman. The motivation for doing so would have been to provide control and communication relay for the multi-media processing devices comprising the media processing system (column 3, lines 49-52 of Korman). Therefore, it would have been obvious to combine Korman with Sugiyama '723 and Gulko '240 in view of Ishikawa to obtain the invention as specified in claim 24.

11. Claims 17 and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sugiyama (US 5,633,723), Gulko et al. (US 2003/0177240), Ishikawa (US

Art Unit: 2625

5,987,226) and Korman (US 6,308,887) as applied to claims above, and further in view of Hymel (US 2003/0220988).

(1) regarding claims 17 and 43:

Sugiyama '723 and Gulko '240 in view of Ishikawa and Korman does not disclose expressly that the removable storage device is selected from a group consisting of a DVD, a video cassette tape, a CD, an audio cassette tape, a flash card, a computer disk, an SD disk, and a computer- readable medium.

Hymel discloses a removable storage device selected from among a DVD (paragraph 10, lines 14-15 and lines 20-21 of Hymel), a video cassette tape (digital camcorder, which, as is well-known in the art, uses a digital video (DV) cassette tape) (paragraph 10, lines 14-15 and line 20), a CD (paragraph 10, lines 14-15 and lines 19-20 of Hymel), and an audio cassette tape (audio cassette tape reader is a type of audio player, MP3 player is merely an example) (paragraph 10, lines 14-15 and line 19), a computer disk (paragraph 19, lines 8-9 of Hymel), and a computer-readable medium (paragraph 19, lines 8-9 of Hymel).

Sugiyama '723 and Gulko '240 in view of Ishikawa and Korman is analogous art with respect to Hymel because they are from similar problem solving areas, namely the control of data storage and output. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to have available for selection a DVD, a video cassette tape, a CD, an audio cassette tape, a computer disk, and a computer-readable medium. The motivation for doing so would have been to allow a user to connect a variety of different types of peripheral devices to an overall system, thus



Art Unit: 2625

allowing the user to perform a variety of functions (paragraph 2, lines 1-6 of Hymel). Therefore, it would have been obvious to combine Hymel with Sugiyama '723 and Gulko '240 in view of Ishikawa and Korman.

12. Claims 18 and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sugiyama (US 5,633,723), Gulko et al. (US 2003/0177240) and Ishikawa (US 5,987,226) as applied to claims above, and further in view of Kimura (US 5,270,989).

(1) regarding claims 18 and 44:

Sugiyama '723 and Gulko '240 in view of Ishikawa do not disclose expressly that the electronic output system (second output source) comprises a handling mechanism to accommodate a plurality of removable storage devices.

Kimura discloses a handling mechanism (figure 1(6) of Kimura) that accommodates a plurality of removable storage devices (column 4, lines 46-52 of Kimura).

Sugiyama '723 and Gulko '240 in view of Ishikawa is analogous art with respect to Kimura because they are from similar problem solving areas, namely processing and storing digital output data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to provide a handling mechanism to handle a plurality of removable storage devices, as taught by Kimura. The motivation for doing so would have been to be able to store and select from among a plurality of different available removable storage devices (column 2, lines 38-42 of Kimura). Therefore, it would have been obvious to combine Kimura with Sugiyama '723 and Gulko '240 in view of Ishikawa to obtain the invention as specified in claims 18 and 44.

Art Unit: 2625

13. Claims 19 and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sugiyama (US 5,633,723), Gulko et al. (US 2003/0177240), Ishikawa (US 5,987,226) and Kimura (US 5,270,989) as applied to claims above, and further in view of Takemasa (US 5,136,563).

(1) regarding claims 19 and 45:

The arguments regarding claims 18 and 44 are incorporated herein. Kimura further discloses selecting between handling devices (such as Laser Disc or CD) (column 5, lines 23-30 of Kimura). Both handling devices are of the tray type (column 5, lines 20-27 of Kimura).

Sugiyama '723 and Gulko '240 in view of Ishikawa and Kimura does not disclose expressly that the group of handling mechanism from which the handling mechanism is selected consists not only of a tray, but also of a feeder and a bandolier.

Takemasa discloses a feeder type handling mechanism (figure 2b; figure 18; and column 5, lines 52-67 of Takemasa).

Sugiyama '723 and Gulko '240 in view of Ishikawa and Kimura is analogous art with respect to Takemasa because they are from similar problem solving areas, namely processing and storing digital output data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to include the feeder type handling mechanism taught by Takemasa as another type of handling mechanism from which to choose. The motivation for doing so would have been to provide for compact and reliable insertion and switching of the removable storage devices (column 2, lines 14-16

Art Unit: 2625

of Takemasa). Therefore, it would have been obvious to combine Takemasa with Sugiyama '723 and Gulko '240 in view of Ishikawa and Kimura.

14. Claims 20 and 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sugiyama (US 5,633,723), Gulko et al. (US 2003/0177240) and Ishikawa (US 5,987,226) as applied to claims above, and further in view of Steinberg (US 6,000,030).

(1) regarding claims 20 and 46:

Sugiyama '723 and Gulko '240 in view of Ishikawa does not disclose expressly that said electronic output system (second output source) comprises a media writer selected from a group consisting of a disposable media writer and a self-destructing media writer.

Steinberg discloses a disposable media writer (column 4, lines 16-20 of Steinberg) and a self- destructing media writer (column 5, lines 28-36 of Steinberg).

Sugiyama '723 and Gulko '240 in view of Ishikawa is analogous art with respect to Steinberg because they are from similar problem solving areas, namely the control and storage of digital data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to provide for digital data output a group of media writers consisting of a disposable media writer and a self-destructing media writer, as taught by Steinberg. The motivation for doing so would have been prevent unauthorized access to computer files (column 1, lines 43-50 of Steinberg). Therefore, it would have been obvious to combine Steinberg with Sugiyama '723 and Gulko '240 in view of Ishikawa to obtain the invention as specified in claims 20 and 46.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LENNIN R. RODRIGUEZ whose telephone number is (571)270-1678. The examiner can normally be reached on Monday - Thursday 7:30am - 6:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, King Poon can be reached on (571) 272-7440. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/King Y. Poon/  
Supervisory Patent Examiner, Art Unit 2625

/Lennin R Rodriguez/  
Examiner, Art Unit 2625